PRE-	IROAN INDUCTION INSPECTION	N SHEETS
	FOR	
	5 TON FAMILY VEHICI	LES
DATE:		
MODEL:		
U.S.M.C. NO.	MILES	
JOB ORDER NO.	HOURS	
PRODUCTION NO.		
ENGINE NO.		
TRANSMISSION NO.		
INSPECTOR'S NAME	BADGE NUMBER	SHOP NUMBER
	 	
Note: THE FOLLOWIN	G INSPECTION SHEETS A	ARE DIVIDED INTO SEVEN
		CK IN THE COLUMN WHICH
BEST DESCRIBES THE CONTROL OF THE CARD		
THOSE ITEMS THAT CANN		ANY REASON, THE DTATION IN THE REMARKS
		AT COULD CAUSE INJURY
TO THE OPERATOR OR DA		
UNTIL THE DEFECT IS COI		
THE VEHICLE INTO THE IF	ROAN CYCLE.	

PRE-TEST CHECKLIST - ALL MODELS

NOTE: During the walk around inspection, examine vehicle for general appearance including paint, sheet metal rustproofing, workmanship type defects, and miles or damaged equipment. Paint scratches that do not penetrate the top coat are acceptable.

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	CHADACTERICTICS	A				E P		O D	
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			N			R		Y	
			G						REMARKS
1.	FRONT OF VEHICLE								
a.	Headlights/front marker lights								
	(1) Damage								
	(2) Security of mounting								
b.	Front glad hands								
	(1) Hose, lines, and fitting for damage/looseness								
	(2) Dust cover for damage/missing chain								
C.	Windshield for damage								
d.	Wiper arms and blades								
	(1) Damage								
	(2) Proper mounting								
e.	Lifting shackles								
f.	Self recovery winch (if equipped)								
	(1) Hose, lines, and fitting for damage/looseness								
	(2) Cable for kinks and frays (top row)								
	(3) Cable clevis for damage (lock pin installed)								
	(4) Cable evenly wound and secured								
	(5) Winch guide rollers for proper lubrication								
2.	ENGINE COMPARTMENT								
a.	Cold weather start aide								
	(1) Security of mounting								
	(2) If temperature is below 45 degrees, insure								
	bottle is connected								
b.	Engine mount biscuits for damage/looseness								
C.	Fuel line connections for looseness/damage								
d.	Compressor lines/fittings for looseness/damage								

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		Y	I			I	l	F	
			N			R		Y	
			G						REMARKS
e.	Fan belts for damage								
f.	Fan rotates freely								
g.	Radiator for leaks/cooling fins for damage								
	and/or obstructions								
h.	Engine oil check cold must be between low l								
	and full								
i.	Radiator level must be 1" below filler neck								
j.	Transmission oil check cold must be at cold								
k.	Electrical connections for looseness/damage								
1.	Air line connections for looseness/damage								
m.	Power steering reservoir cold check to cold mark								
n.	Steering arms and linkages for sufficient								
	lubrication								
Ο.	Power steering oil cooler.								
	(1) Hose, lines, and fittings for damage/								
	loosness								
	(2) Proper mounting								
	(3) Leaks								
	(4) Cooling fins for damage and or obstructions								
p.	Cab mount biscuits for damage/looseness								
3.	CURB SIDE OF VEHICLE								
a.	Side marker lamps for damage/security of mounting								
b.	Front wheel and tire								
	(1) Condition of tires (cuts, gouges, & uneven/								
	excessive wear)								
	(2) Lug nuts for obvious looseness								
c.	Passenger door								
	(1) Door for ease of operation, fit and sealing								
	(2) Window for ease of operation and damage								
	(3) Side mirrors for damage and security of mounting								

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	T	_	G		_	L	_		REMARKS
d.	Steps for damage and security of mounting	_				_			
e.	Air reservoirs	_	_	_	L	_			
<u> </u>	(1) Pet cocks for freedom of movement	_				<u> </u>			
	(2) Hoses, lines, and fittings for damage/looseness			_		ļ			
f.	Storage boxes	L							
	(1) Security of mounting	L				<u> </u>			
	(2) Hinges for damage and looseness					L			
	(3) Water in boxes								
g.	Hydraulic reservoir								
	(1) Leakage								
	(2) Hose, lines, fittings for loosensess/damage								
	(3) No rust on dipstick/filler neck								
	(4) Fluid level 1/2 way between low and full								
h.	Intermediate/rear wheels and tires								
	(1) Condition of tires (cuts, gouges, uneven and								
	gouges, and excessive wear)								
	(2) Lug nuts for obvious looseness								
	(3) Mud flaps torn/missing/bent hardware								
	(4) Fenders for security of mounting/bent/loose bolt	8							
4.	REAR OF VEHICLE								
a.	Rear tail lights								
	(1) Damage								
	(2) Security of mounting								
b.	Pintle hook								
	(1) Freedom of movement								
	(2) Security of mounting								
	(3) Lock pin and chain secured.								
c.	Rear glad hands					П			
	(1) Hose, lines, and fittings for damage/looseness					П			
	(2) Dust covers for damage/missing chains					П			
d.	Trailer light receptacle loose/damaged								
е.	Lifting shackles missing								
f.	Reflectors missing/damaged					П			

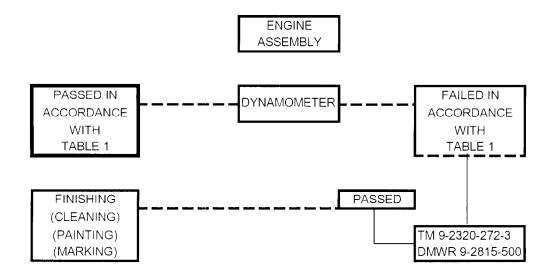
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		_	G	ļ	_				REMARKS
5.	ROADSIDE OF VEHICLE	_	_	_		_			
a.	Intermediate/rear wheels and tires								
	(1) Condition of tires (cuts/gouges/uneven/excessive wear								
	(2) Lug nuts for obvious looseness								
	(3) Mud flaps torn/missing/bent hardware								
	(4) Fenders for security of mounting/bent/loose								
b.	Side marker lamps for dainage/security of mounting								
C.	Fuel tanks and lines								
	(1) Security of mounting								
	(2) Fuel lines and fittings for damage/looseness								
d.	Air intake stack for damage/security of mounting								
e.	Air cleaner								
	(1) Obvious damage								
	(2) Hoses/clamps/fittings for looseness/damage								
	(3) Dust cup installed								
f.	Drivers door								
	(1) Door for ease of operation/fit/sealing								
	(2) Window for ease of operation fit/sealing								
	(3) Side mirrors for damage/security of mounting								
g.	Steps for damage/security of mounting							İ	
h.	Cab mount biscuits for damage/security								
i.	Front wheel and tire								
	(1) Condition of tires (cuts. gouges, uneven								
	excessive wear)						Ī		
	(2) Lug nuts for obvious looseness								
6.	REAR OF CAB								
a.	Spare tire								
	(1) Damage							\exists	
	(2) Security of mounting						\exists		
b.	Spare tire/carrier and davit assembly						7		
	(1) Tire securely mounted								
	(2) Tire davit, winch cable/handle for damage								

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		i	N G			R		Y	REMARKS
7	CAB INTERIOR								
a.	Batteries and cables								
	(1) Fluid level (up to split ring)								
	(2) Posts and cables for looseness/corrosion								
	(3) Batteries for security of mounting								
b.	Glass for excessive scratches								
C.	Seats for ability to adjust and security of mounting	,							
d.	Instruction and data plates								
	(1) Location and proper installation								
	(2) Correct information on all the plates								
8.	UNDERSIDE OF VEHICLE								
a.	Front Suspension								
	(1) CV boot for damage								
	(2) Hoses, lines, fittings for looseness/damage								
	(3) Shock absorbers for looseness/damage								
	(4) Input/output shafts for mounting, lube								
	(5) Input/output seals for leaks								
	(6) Breather caps for freeplay/damage								
	(7) Front axle for proper level								
b.	Air Reservoirs								
	(1) Hoses/lines/fittings for damage/leaks/chafing								
C.	Transmission								
	(1) Mounting and security of components								
	(2) Leaks								
d.	Transfer case (8 point 5/8 in 1/2 indrive socket)								
	(1) Mounting and security of components								-
	(2) Check for proper level								
	(3) Input/output shafts for damage/looseness								
e.	Rear suspension								
	(1) Hoses, lines, and fittings for damage/loosenss								
	(2) Input/output shafts for mounting, lube					Ш			
	(3) Input/output seals for leaks								
	(4) Breather caps for freeplay								
	(5) Intermediate/rear axles for proper levels								

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			G	+					REMARKS
9.	TRUCK BODIES					Π			
a.	Cargo bodies								
	(1) Side and end panels for damage								
	(2) Latches, hinges, and pins for damage								
	(3) Cargo tic downs for broken welds								
	(4) Side racks for proper installation								

APPENDIX B

TYPE OF VEHICLE		MODEL CHASSIS SERIAL NO				USM	IC NO		MILEAGE		
СТ	IVITY	YEAR	DF MANU	FACTURE		<u> </u>					
NSF	PECTION BY AUTHORIZED GOVT	REP (S	SIGN & DA	ATE)							
GROUP	PART	SATISFACTORY	UNSATISFACTORY	GROUP	PART	SATISFACTORY	UNSATISFACTORY		COMMENTS		
01	ENGINE			14	STEERING GEAR						
03	FUEL SYSTEM			15	FRAME						
03	TANK			15	TOWING CONNECTIONS						
03	INJECTORS			16	SHOCK ABSORBERS						
03	METER PUMP			16	SPRINGS						
03	ETHER START			18	FENDERS						
04	MUFFLER & TAIL PIPE			18	HOOD						
05	FAN & WATER PUMP			18	BED						
05	RADIATOR			18	CAB						
06	BATTERY			18	FLOOR						
06	INSTRUMENTS			18	GLASS						
06	GENERATOR			18	INTERIOR TRIM						
06	LIGHTS			18	SEATS & UPHOLSTERY						
06	STARTER			15	BUMPERS						
06	REGULATOR			18	BRUSH GUARD & GRILL						
06	WIRING			22	MIRRORS						
07	TRANSMISSION			22	WIPERS & ARMS						
80	TRANSFER				PAINT						
9	DRIVE SHAFT			33	FORDING KIT						
10	FRONT AXLE			20	WINCH						
11	INTER AXLE			22	VEHICLE ACCESSORIES						
11	REAR AXLE										
12	HAND BRAKE SYS										
12	SERVICE BRAKE SYS										
13	TIRES			ACCE	TANCE BY AUTHORIZED	GO	VER	NMENT R	EPRESENTATIVE		
13	WHEELS										



Acceptable Operating Specifications for NHC 250 Cumrnins Engine

Rated Power	Minimum 250 hp at 2100 rpm
IdleSpeed	600rpm
Minimum Engine Oil Pressure at Idle	10-30 psi at 225oF
Normal Engine Oil Pressure	30-70 psi at 1200-2100 rpm
Normal Oil Temperature	180-225oF
Normal Coolant Temperature	160-2000F
Normal Inlet Fuel Pressure	169-183 psi at 2100 rpm
Fuel Inlet Temperature	100oF maximum

)

DYNAMOMETER RUN-IN SCHEDULE

'CUMMINS DIESEL IN-LINE (6) NHC25O - DYNAMOMETER TEST LOG (

Job Order No:		Serial No:			Date			
Test	Time in	Engine	Dyno Load	Smoke	Oil	Oil Sump	Water	Fuel
Period	Minutes	RPM	(H.F [.] .)	Density	Press	Temp	Temp	Press
	5	1000	20					
	30	1575	125					
	30	2100	188					
	30	2100	213					
	15	2100	225					
	5	2100	240 - 5%					
			FINAL CHECK	RUN. TORQ	UE: Output _			
	1	1500	LB FT (651-68	5 corrected)				
	10	1000	10					

Normal lube oil pressure, 10 to 30 psi at 2250 at idle

Normal lube oil pressure, 30 to 70 psi at 1200 to 2100 rpm. (30 psi min

Lube oil sump temperature 2400 maximum at 1200 to 2100 rpm.

Normal coolant temperature, 160oF to 200oF.

Fuel inlet temperature 1000 MAXIMUM. Actual o.

Engine rpm: low idle 600; high idle, no load2195-22.

RUN-IN RECORD

	KI	JN-IN RECORD
Item No.		
	Test Results	Operator's Initials
	Diesel Fuel Used	
1.	VV-F-800	
	Oil Used	
2.	MIL-L-21260 15W/40W	
	Brake Horsepower	
3.	Corrected bhp at 2100 rpm	(235 lb. ft. min.)

RUN-IN RECORD (CUMMINS DIESEL IN-LINE (6) NHC250)

REMARKS: 1. If abnormal noise, describe conditions: 2. Smoothness at idle:_____ 3. Engine malfunction: _____ Operator _____ Date ____ Inspector ____ Date ____ **CORRECTION FACTORS** 1. Horsepower Correction Data: _____ a. Barometric pressure in HG: _____ b. Wet bulb temperature oF: _____ c. Dry bulb temperature oF: _____ d. Observed HP: _____ e. Corrected HP: f. Torque output @ 1500: _____ g. Torque output corrected @ 1500: _____

HICKLIN DYNAMOMETER RUN SHEET MT-654 TRANSMISSION

SERIAL NO.	DATE
OPERATOR	
Fill transmission to operating level with OE/HDO-10 v	weight oil, conforming MIL-L-2104C
Set test stand drive unit for clockwise rotation.	
Set input at 1200 rpm, closed throttle modulator settil	ng, output unloaded,
transmission through all ranges to fill clutches.	
With output stalled, full throttle modulator cotting, driv	(o A(E) range, etc.
With output stalled, full throttle modulator setting, driv	e 4(5) range, sta
transmission until fluid temperature reaches I70OF.	
Check and reestablish correct fluid level.	

Test RPM	Throttle	Output	Specific Reading:	iding:			Actual
			Main Pressu	Main Pressure (290-315 psi)			
			Reverse Sig	Reverse Signal Pressure (290-314 psi)	t psi)	i	
Reverse 2000 <u>+</u> 20	Full	Unloaded	Converter F Lube pressu	Converter Flow (6.8 gpm min.) Lube pressure (Cooler out) - (15 psi)	(90)		
Test RPM	Throttle	Range	Output	Output Torque (lb. Ft. 1020)	1020)	Main Pressure	
				Minimum at Input Speed (rpm 750)	Speed (rpm 750)		
Stall 1200 ± 20	Full	4(5)	Stall	Actual	Required 180-205 psi)5 psi	
					Actual		
Test RPM	Throttle	Range		Mair	Main Pressure		
Idle 600±20	Closed	4(5)	Minumum 160 psi	60 psi	Actual		
Test	Kangc	Throttle	Output	Shift Point	Req rpm		Actual
Full Throttle	4(5)	Full	Loaded	L-1	375-440		
Upshift			500-1000	1C-1L	690-830		
				1-2	910-975		
				2-3	1125-1290		
				3-4	1585-1675		
Test	Range	Throttle	Output	Shift Point	Req rpm		Actual
Closed Throttle	4(5)	Closed	Loaded	4-3	845-1260		
Upshift			500-1000	3-2	705-900		
				2-1	535-690		
				1L-1C	460-590	1	
NOTE: Increase load until downshift occurs.	til downshift oc	curs.		1-L	225-315		
Test	Range	Throttle	Output	Shift Point	Req rpm		Actual
Downshift	4(5)	Full	Loaded	4-3	1840-2070		
Inhibitor			500-1000	3-2	1360-1555		
				2-1	970-1180		
					307 361		

NOTE: Reduce input speed with each gear downshift.

Hicklin Dynamomoeter Run Sheet (Sheet 2 of 2)

APPENDIX E FINAL ROAD TEST CHECKLIST ATTACHMENT NO. _____

ALL SAFETY CHECKS MUST FE SATISFACTORILY COMPLETED PRIOR TO ROAD TESTS.

IF NECESSARY, BEFORE PERFORMING ALL TESTS AND CHECKS, WIPE DOWN COMPONENTS WHERE GREASE, OIL, OR DIRT COULD POSSIBLY FORM.

THE FOLIOWING ITEMS SHALL BE CHECKED DURING THE VEHICLE STATIC TEST WITH THE VEHICLE ENGINE OPERATING

LOW AIR LIGHTBUZZER WILL REMAIN ON UNTIL SYSTEM PRESSURE REACHES 60 PSI.

DO NOT JUMP START VEHICLE WITH LIGHT SWITCH ON.

DO NOT JUMP START VEH.	UL	εW	111	i Ll	IJΉ	1.81	WII	CHON.
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		N			R		Υ	S
1. Charle the following guarant for approach readings	_	G_	-	<u> </u>	}	┝.	┢.	REMARKS P
1. Check the following guages for correct readings a. Tachometer reading 600+50 rpm at idle		-			-			
b. Engine oil pressure, minimum of 10 psi at idle		_	H	-		_	_	
c. Low air buzzer/light		_	_	<u> </u>		_		
		_	L		_		┝	
		_					L	
e. Battery guage registers in the green		_					_	<u> </u>
f. Fuel guage registers equivalent to tank level		<u> </u>				_	_	
g. Engine coolant 175 to 1950 F (after road test)		_			_			
h. Transmission oil temperature 120 to 220oF								
to 2200 F (after road test)		_			L	_		
i. Primary air pressure 90 to 128 PSI		_	_	_				
j. Secondary air pressure 90 to 128 PSI					_		L	
2. Cab controls (can be done on raod test)			Н		_			
a. Windshield washer		L						
b. Windshield wipers left and right					L			
c. Heater/defroster fan	_				L		_	
d. Heater								
e. Defroster ducts for air								
f. Transfer case							L	
(1) Shift level for ease of operation							L	
(2) Operates in high and low								
g. Horn for proper operation								
h. Brake operation (does not pull or								
stall when applied for a quick stop)								
(1) Park brake holds with transmission in gear								
(2) Park brake release operates properly								
(3) Service brakes operate properly								
(4) Unusual noises								